

GenCore version 5.1.6
Copyright (c) 1993 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 25, 2003, 14:55:36 ; Search time 16.5271 Seconds
(without alignments)
680.911 Million cell updates/sec

Title: US-09-622-613B-11

Perfect score: 577
Sequence: 1 SDMLTFQKHLLTNRDVCN.....TFCVTCENQAPVHFVGVGHC 104

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications_AA:*

- 1: /cgn2_6/ptodata1/pubppaa/US08_NEW_PUB pep:*
- 2: /cgn2_6/ptodata1/pubppaa/PCT_NEW_PUB pep:*
- 3: /cgn2_6/ptodata1/pubppaa/US06_NEW_PUB pep:*
- 4: /cgn2_6/ptodata1/pubppaa/US06_PUBCOMB pep:*
- 5: /cgn2_6/ptodata1/pubppaa/US07_NEW_PUB pep:*
- 6: /cgn2_6/ptodata1/pubppaa/US07_PUBCOMB pep:*
- 7: /cgn2_6/ptodata1/pubppaa/PCTUS_PUBCOMB pep:*
- 8: /cgn2_6/ptodata1/pubppaa/US08_PUBCOMB pep:*
- 9: /cgn2_6/ptodata1/pubppaa/US09_NEW_PUB pep:*
- 10: /cgn2_6/ptodata1/pubppaa/US09_PUBCOMB pep:*
- 11: /cgn2_6/ptodata1/pubppaa/US10_NEW_PUB pep:*
- 12: /cgn2_6/ptodata1/pubppaa/US10_PUBCOMB pep:*
- 13: /cgn2_6/ptodata1/pubppaa/US60_NEW_PUB pep:*
- 14: /cgn2_6/ptodata1/pubppaa/US60_PUBCOMB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	577	100.0	104	9	US-09-948-391A-11 Sequence 11, Appl
2	577	100.0	105	9	US-09-948-391A-13 Sequence 13, Appl
3	573	99.3	105	9	US-09-948-391A-6 Sequence 6, Appl
4	573	99.3	127	9	US-09-948-391A-28 Sequence 28, Appl
5	564	97.7	104	9	US-09-948-391A-2 Sequence 2, Appl
6	564	97.7	104	9	US-09-948-391A-4 Sequence 4, Appl
7	555	96.2	105	9	US-09-948-391A-8 Sequence 8, Appl
8	555	96.2	111	9	US-09-948-391A-9 Sequence 9, Appl
9	551	95.5	104	9	US-09-986-119-1 Sequence 1, Appl
10	551	95.5	105	9	US-10-153-882-2 Sequence 2, Appl
11	445	77.1	83	9	US-09-986-119-3 Sequence 3, Appl
12	280.5	48.6	110	9	US-09-948-391A-24 Sequence 24, Appl
13	280.5	48.6	111	9	US-09-948-391A-26 Sequence 26, Appl
14	276.5	47.9	110	9	US-09-948-391A-15 Sequence 15, Appl
15	272.5	47.2	111	9	US-09-948-391A-21 Sequence 21, Appl
16	272.5	47.2	117	9	US-09-948-391A-22 Sequence 22, Appl
17	270.5	46.9	111	9	US-09-948-391A-17 Sequence 17, Appl
18	256.5	46.2	110	9	US-09-948-391A-11 Sequence 11, Appl
19	157.5	27.3	169	12	US-10-016-447-2 Sequence 2, Appl

20	128.5	22.3	124	12	US-10-016-447-5 Sequence 5, Appl
21	113	19.6	147	10	US-09-286-240-6 Sequence 6, Appl
22	113	19.6	147	10	US-09-863-777-2 Sequence 2, Appl
23	113	19.6	147	10	US-09-731-872-254 Sequence 254, App
24	112	19.4	124	9	US-09-981-286A-8 Sequence 8, Appl
25	99.5	17.2	151	12	US-10-016-447-6 Sequence 6, Appl
26	93.5	16.2	156	9	US-09-796-753-102 Sequence 102, App
27	93.5	16.2	156	9	US-09-796-753-118 Sequence 118, App
28	93.5	16.2	156	9	US-10-245-103-60 Sequence 60, Appl
29	93.5	16.2	156	9	US-10-245-107-60 Sequence 60, Appl
30	93.5	16.2	156	9	US-10-245-143-60 Sequence 60, Appl
31	93.5	16.2	156	9	US-10-245-771-60 Sequence 60, Appl
32	93.5	16.2	156	9	US-10-245-851-60 Sequence 60, Appl
33	93.5	16.2	156	9	US-10-245-883-60 Sequence 60, Appl
34	93.5	16.2	156	9	US-10-237-535-60 Sequence 60, Appl
35	93.5	16.2	156	9	US-10-238-283-60 Sequence 60, Appl
36	93.5	16.2	156	9	US-10-238-283-60 Sequence 60, Appl
37	93.5	16.2	156	9	US-10-238-370-60 Sequence 60, Appl
38	93.5	16.2	156	9	US-10-245-055-60 Sequence 60, Appl
39	93.5	16.2	156	9	US-10-245-147-60 Sequence 60, Appl
40	93.5	16.2	156	9	US-10-245-730-60 Sequence 60, Appl
41	93.5	16.2	156	9	US-10-245-739-60 Sequence 60, Appl
42	93.5	16.2	156	9	US-10-246-210-60 Sequence 60, Appl
43	93.5	16.2	156	9	US-10-239-196-60 Sequence 60, Appl
44	93.5	16.2	156	9	US-10-243-024-60 Sequence 60, Appl
45	93.5	16.2	156	9	US-10-243-409-60 Sequence 60, Appl

ALIGNMENTS

RESULT 1
US-09-948-391A-11
Sequence 11, Application US/09948391A
Publication NO. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Department of Health and Human Services
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948.391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 11
LENGTH: 104
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
OTHER INFORMATION: ribonuclease with GlnSer substitution
OTHER INFORMATION: (recombinant Rap1a1 Q1S)
US-09-948-391A-11

Query Match 100.0%; Score 577; DB 9; Length 104;
Best Local Similarity 100.0%; Pred. No. 7.9e-57;

Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SDMLTFQKHLLTNRDVCNINMSTNLFHCKDKMTFTYSRPPVKAICGIIASKNVLT 60
DB 1 SDMLTFQKHLLTNRDVCNINMSTNLFHCKDKMTFTYSRPPVKAICGIIASKNVLT 60
QY 61 SEFLSDCNVTSRCKKTKLKKSTNFTFCVTCENQAPVHFVGVGHC 104

Db 61 SEFYLSDCNVTSRPCKYKLLKSTNTEFCVTCENQAPVHFVGVGHC 104

RESULT 2
US-09-948-391A-13
; Sequence 13, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; TITLE OF INVENTION: Department of Health and Human Services
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO: 13
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
; OTHER INFORMATION: ribonuclease with Met at position 1 and Gluzser
US-09-948-391A-13

Query Match
Best Local Similarity 100.0%; Score 577; DB 9; Length 105;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DMLTFQKKHLNTRVDCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIASKNVLT 60
Db 2 DMLTFQKKHLNTRVDCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIASKNVLT 61
QY 61 SEFYLSDCNVTSRPCKYKLLKSTNTEFCVTCENQAPVHFVGVGHC 104
Db 62 SEFYLSDCNVTSRPCKYKLLKSTNTEFCVTCENQAPVHFVGVGHC 105

RESULT 3
US-09-948-391A-6
; Sequence 6, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; TITLE OF INVENTION: Department of Health and Human Services
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO: 6
; LENGTH: 105
; TYPE: PRT

ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
; OTHER INFORMATION: ribonuclease with Met at position 1 (recombinant
US-09-948-391A-6

Query Match
Best Local Similarity 99.3%; Score 573; DB 9; Length 105;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DMLTFQKKHLNTRVDCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIASKNVLT 61
Db 3 DMLTFQKKHLNTRVDCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIASKNVLT 62
QY 62 EFYLSDCNVTSRPCKYKLLKSTNTEFCVTCENQAPVHFVGVGHC 104
Db 63 EFYLSDCNVTSRPCKYKLLKSTNTEFCVTCENQAPVHFVGVGHC 105

RESULT 4
US-09-948-391A-28
; Sequence 28, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; TITLE OF INVENTION: Department of Health and Human Services
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO: 28
; LENGTH: 127
; TYPE: PRT
; ORGANISM: Rana pipiens
; FEATURE:
; OTHER INFORMATION: Rana pipiens ribonuclease (RaplR1) Clone 5a1b cDNA
US-09-948-391A-28

Query Match
Best Local Similarity 100.0%; Score 573; DB 9; Length 127;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DMLTFQKKHLNTRVDCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIASKNVLT 61
Db 25 DMLTFQKKHLNTRVDCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIASKNVLT 84
QY 62 EFYLSDCNVTSRPCKYKLLKSTNTEFCVTCENQAPVHFVGVGHC 104
Db 85 EFYLSDCNVTSRPCKYKLLKSTNTEFCVTCENQAPVHFVGVGHC 127

RESULT 5
US-09-948-391A-2
; Sequence 2, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the

APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 104
TYPE: PRN
ORGANISM: Rana pipiens
FEATURE:
OTHER INFORMATION: ribonuclease (RaplR1)
US-09-948-391A-2

Query Match 97.7%; Score 564; DB 9; Length 104;
Best Local Similarity 99.0%; Pred. No. 2,2e-55;
Matches 102; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 DWLFFOKHLLTNRDVDCNNIMSTNLFHCKDKNTFYISREPPYKAICKGIASKNVLTTS 61
DB 2 DWLFFOKHLLTNRDVDCNNIMSTNLFHCKDKNTFYISREPPYKAICKGIASKNVLTTS 61
OY 62 EFLYSDCNVTSRPPCKYKLRKSTNFCVTCENQAPVHFVGVGHC 104
DB 62 EFLYSDCNVTSRPPCKYKLRKSTNFCVTCENQAPVHFVGVGHC 104

RESULT 6
US-09-948-391A-4
Sequence 4, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 104
TYPE: PRN
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
OTHER INFORMATION: ribonuclease with Met23leu substitution
OTHER INFORMATION: (recombinant, RapLr1 Met23leu)
US-09-948-391A-4

Query Match 97.7%; Score 564; DB 9; Length 104;
Best Local Similarity 98.1%; Pred. No. 2,2e-55;
Matches 101; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2 DWLFFOKHLLTNRDVDCNNIMSTNLFHCKDKNTFYISREPPYKAICKGIASKNVLTTS 61
DB 2 DWLFFOKHLLTNRDVDCNNIMSTNLFHCKDKNTFYISREPPYKAICKGIASKNVLTTS 61

OY 62 EFLYSDCNVTSRPPCKYKLRKSTNFCVTCENQAPVHFVGVGHC 104
DB 62 EFLYSDCNVTSRPPCKYKLRKSTNFCVTCENQAPVHFVGVGHC 104

RESULT 7
US-09-948-391A-8
Sequence 8, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 8
LENGTH: 105
TYPE: PRN
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
OTHER INFORMATION: ribonuclease with Met at position 1 and Met24leu
OTHER INFORMATION: substitution (recombinant Met(-1) RapLr1 Met23leu)
US-09-948-391A-8

Query Match 96.2%; Score 555; DB 9; Length 105;
Best Local Similarity 97.1%; Pred. No. 2,2e-54;
Matches 100; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 2 DWLFFOKHLLTNRDVDCNNIMSTNLFHCKDKNTFYISREPPYKAICKGIASKNVLTTS 61
DB 3 DWLFFOKHLLTNRDVDCNNIMSTNLFHCKDKNTFYISREPPYKAICKGIASKNVLTTS 62

OY 62 EFLYSDCNVTSRPPCKYKLRKSTNFCVTCENQAPVHFVGVGHC 104
DB 63 EFLYSDCNVTSRPPCKYKLRKSTNFCVTCENQAPVHFVGVGHC 105

RESULT 8
US-09-948-391A-9
Sequence 9, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0

```

: SEQ ID NO 9
: LENGTH: 111
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
: OTHER INFORMATION: ribonuclease with (His)6 tag, Met at position 7
: OTHER INFORMATION: and Met30Leu substitution (recombinant Met(-1))
: OTHER INFORMATION: RAPRI Met23Leu-(His)6
: US-09-948-391A-9

Query Match      96.2%; Score 555; DB 9; Length 111;
Best Local Similarity 97.1%; Pred. No. 2.4e-54;
Matches 100; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Oy 2 DMLFFOKKHLNTRDVCNNIMSTNLFHCKDKNFTYSRPPVKAICKGIASKNVLTTS 61
Db 9 DMLFFOKKHLNTRDVCNNIMSTNLFHCKDKNFTYSRPPVKAICKGIASKNVLTTF 68

Oy 62 EFYLSDCNVTSRPCKYKILKSTNFCVTCENQAPVHFVGSHC 104
Db 69 EFYLSDCNVTSRPCKYKILKSTNFCVTCENQAPVHFVGSHC 111

RESULT 9
US-09-986-119-1
: Sequence 1, Application US/09986119
: Publication No. US20020187153A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: Newton, Dianne L.
: Goldenberg, David M.
: TITLE OF INVENTION: Immunotoxins Directed Against Malignant
: Cells
: NUMBER OF SEQUENCES: 3
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Townsend and Townsend and Crew LLP
: STREET: Two Embarcadero Center, Eighth Floor
: CITY: San Francisco
: STATE: California
: COUNTRY: USA
: ZIP: 94111-3834
: COMPUTER READABLE FORM:
: MEDIUM TYPE: floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/986,119
: FILING DATE: 07-NO. US20020187153A1-2001
: CLASSIFICATION: <unknown>
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/09/071,672
: FILING DATE: 01-MAY-1998
: APPLICATION NUMBER: US 60/046,895
: FILING DATE: 02-MAY-1997
: ATTORNEY/AGENT INFORMATION:
: NAME: Weber, Ellen Lauver
: REGISTRATION NUMBER: 32,762
: REFERENCE/DOCKET NUMBER: 015280-32510US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (415) 576-0200
: TELEFAX: (415) 576-0300
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 104 amino acids
: TYPE: amino acid
: STRANDEDNESS: <unknown>
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: FEATURE:
: NAME/KEY: Modified-site
: LOCATION: 1
```

```

: OTHER INFORMATION: /product= "OTHER"
: /note= "Xaa = Glu or pyroglutamic acid"
: FEATURE:
: NAME/KEY: Protein
: LOCATION: 1..104
: OTHER INFORMATION: /note= "Rnase A derived from
: Rana pipiens, "onc protein"
: SEQUENCE DESCRIPTION: SEQ ID NO: 1:
: US-09-986-119-1

Query Match      95.5%; Score 551; DB 9; Length 104;
Best Local Similarity 96.1%; Pred. No. 6.2e-54;
Matches 99; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Oy 2 DMLFFOKKHLNTRDVCNNIMSTNLFHCKDKNFTYSRPPVKAICKGIASKNVLTTS 61
Db 2 DMLFFOKKHLNTRDVCNNIMSTNLFHCKDKNFTYSRPPVKAICKGIASKNVLTTS 61

Oy 62 EFYLSDCNVTSRPCKYKILKSTNFCVTCENQAPVHFVGSHC 104
Db 62 EFYLSDCNVTSRPCKYKILKSTNFCVTCENQAPVHFVGSHC 104

RESULT 10
US-10-153-882-2
: Sequence 2, Application US/10153882
: Publication No. US20030099629A1
: GENERAL INFORMATION:
: APPLICANT: GOLDENBERG, David M.
: HANSEN, Hans
: APPLICANT: LEUNG, Shui-on
: TITLE OF INVENTION: RECOMBINANT ONCONASE, AND CHEMICAL CONJUGATES AND
: FILE OF INVENTION: FUSION PROTEINS OF RECOMBINANT ONCONASE
: FILE REFERENCE: 018733/0913
: CURRENT APPLICATION NUMBER: US/10/153,882
: CURRENT FILING DATE: 2002-05-24
: PRIOR APPLICATION NUMBER: US/09/265,901
: PRIOR FILING DATE: 1999-03-11
: PRIOR APPLICATION NUMBER: US 60/077,557
: PRIOR FILING DATE: 1998-03-11
: NUMBER OF SEQ ID NOS: 12
: SOFTWARE: Patentin Ver. 2.0
: SEQ ID NO 2
: LENGTH: 105
: TYPE: PRT
: ORGANISM: Rana pipiens
: US-10-153-882-2

Query Match      95.5%; Score 551; DB 9; Length 105;
Best Local Similarity 96.1%; Pred. No. 6.2e-54;
Matches 99; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Oy 2 DMLFFOKKHLNTRDVCNNIMSTNLFHCKDKNFTYSRPPVKAICKGIASKNVLTTS 61
Db 3 DMLFFOKKHLNTRDVCNNIMSTNLFHCKDKNFTYSRPPVKAICKGIASKNVLTTS 62

Oy 62 EFYLSDCNVTSRPCKYKILKSTNFCVTCENQAPVHFVGSHC 104
Db 63 EFYLSDCNVTSRPCKYKILKSTNFCVTCENQAPVHFVGSHC 105

RESULT 11
US-09-986-119-3
: Sequence 3, Application US/09986119
: Publication No. US20020187153A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: Newton, Dianne L.
: Goldenberg, David M.
: TITLE OF INVENTION: Immunotoxins Directed Against Malignant
: Cells
: NUMBER OF SEQUENCES: 3
: CORRESPONDENCE ADDRESS:
```

ADDRESSES: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/09/986,119
FILING DATE: 07-NO. US20020187153A1-2001
CLASSIFICATION: <Unknown>
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/09/071,672
FILING DATE: 01-MAY-1998
APPLICATION NUMBER: US 60/046,895
FILING DATE: 02-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 015280-3251005
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 83 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Protein
LOCATION: 1..83
OTHER INFORMATION: /note="Onc protein", positions 16-98
of SEQ ID NO:1"
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-986-119-3
Query Match 77.1%; Score 445; DB 9; Length 83;
Best Local Similarity 97.6%; Pred. No. 2.9e-42;
Matches 81; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 16 DVDCCNIMSTNLFHCHDKNTFTISREPPVKAICGIIASKNVLTSEFYISDCNVTSRPC 75
DB 1 DVDCCNIMSTNLFHCHDKNTFTISREPPVKAICGIIASKNVLTSEFYISDCNVTSRPC 60
QY 76 KYKLKSTNTFCVTCENQAPVHF 98
DB 61 KYKLKSTNTFCVTCENQAPVHF 83
RESULT 12
US-09-948-391A-24
Sequence 24, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-34311005
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 24
LENGTH: 110
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
caesabellana ribonuclease with Gln1ser substitution
OTHER INFORMATION: (recombinant RacOR1 Q15)
US-09-948-391A-24
Query Match 48.6%; Score 280.5; DB 9; Length 110;
Best Local Similarity 49.5%; Pred. No. 7.7e-24;
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;
QY 1 SDMLTFQKKHLTNTROVDCCNIMSTNLF---HCKDKNTFTISREPPVKAICGIIASKN 56
DB 1 SNMATEQKKHIIINT-PIICNTIMDNIIYVGGCKRVNFTISSATTVAICGV1-NNN 58
QY 57 VLTSEFYISDC---NVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104
DB 59 VLTSTRFQNTCTRTSITPRPCPYSSRTETNYICVACENQAPVHFVGVGHC 109
RESULT 13
US-09-948-391A-26
Sequence 26, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-34311005
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 26
LENGTH: 111
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
caesabellana ribonuclease with Met at position 1
OTHER INFORMATION: and Gln2ser substitution (Met(-1) RacOR1 Q15)
US-09-948-391A-26
Query Match 48.6%; Score 280.5; DB 9; Length 111;
Best Local Similarity 49.5%; Pred. No. 7.8e-24;
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;
QY 1 SDMLTFQKKHLTNTROVDCCNIMSTNLF---HCKDKNTFTISREPPVKAICGIIASKN 56
DB 2 SNMATEQKKHIIINT-PIICNTIMDNIIYVGGCKRVNFTISSATTVAICGV1-NNN 59
QY 57 VLTSEFYISDC---NVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104
DB 60 VLTSTRFQNTCTRTSITPRPCPYSSRTETNYICVACENQAPVHFVGVGHC 110
RESULT 14

```
US-09-948-391A-15
; Sequence 15, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 110
; TYPE: PRF
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Rana
; OTHER INFORMATION: catesbeiana oocyte ribonuclease (RACOR1) synthetic
US-09-948-391A-15

Query Match      47.9%; Score 276.5; DB 9; Length 110;
Best Local Similarity 49.1%; Pred. No. 2.2e-23;
Matches 54; Conservative 15; Mismatches 32; Indels 9; Gaps 4;

QY      2 DMLTFQKKHLNTRDVCNNIMSTNLF---HCKDKNFTIYSRPEPVKAIKGIASKNV 57
      :| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2 NMATFQKKHLNTRDVCNNIMSTNLF---HCKDKNFTIYSRPEPVKAIKGIASKNV 57
      :| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY      58 LITSEFYLSDC---NVTSRPCKYKLLKSTNTEFCVTCENQAPVHFVGVC 104
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      60 LSTTRFQLNCTRTSITPRPCPYSSRTETNYICVKCENQVPHFAGIGRC 109

RESULT 15
US-09-948-391A-21
; Sequence 21, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 21
; LENGTH: 111
; TYPE: PRF
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Rana
; OTHER INFORMATION: catesbeiana ribonuclease with Met at position 1,
```

```
; OTHER INFORMATION: Met23Leu and Met58Leu substitutions (recombinant
; OTHER INFORMATION: Met(-1) RacOR1 Met22Leu Met57Leu)
US-09-948-391A-21

Query Match      47.2%; Score 272.5; DB 9; Length 111;
Best Local Similarity 48.2%; Pred. No. 6.1e-23;
Matches 53; Conservative 16; Mismatches 32; Indels 9; Gaps 4;

QY      2 DMLTFQKKHLNTRDVCNNIMSTNLF---HCKDKNFTIYSRPEPVKAIKGIASKNV 57
      :| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      3 NMATFQKKHLNTRDVCNNIMSTNLF---HCKDKNFTIYSRPEPVKAIKGIASKNV 60
      :| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY      58 LITSEFYLSDC---NVTSRPCKYKLLKSTNTEFCVTCENQAPVHFVGVC 104
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      61 LSTTRFQLNCTRTSITPRPCPYSSRTETNYICVKCENQVPHFAGIGRC 110

Search completed: June 25, 2003, 15:42:15
Job time : 17.5271 secs
```